



SEQUENCE LISTING

<110> ZIMMET, PAUL ZEV
COLLIER, GREGORY

<120> A NOVEL GENE AND USES THEREFOR

<130> 229752000701

<140> 10/067,832

<141> 2002-06-03

<150> 09/331,930

<151> 1999-06-30

<150> PCT/AU98/00902

<151> 1998-10-30

<150> AU PP 0117

<151> 1997-10-31

<150> AU PP 0323

<151> 1997-11-11

<160> 22

<170> PatentIn Ver. 3.2

<210> 1

<211> 370

<212> DNA

<213> Psammomys obesus

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<221> CDS

<222> (29)..(247)

<400> 1

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                               1               5

cgt cta gga aag aaa gtc cgc gtt aag tgc aac acc gat gac acc atc      100
Arg Leu Gly Lys Lys Val Arg Val Lys Cys Asn Thr Asp Asp Thr Ile
   10               15               20

ggg gac ttg aag aaa ctg ata gcg gcc caa act ggc act cgt tgg aat      148
Gly Asp Leu Lys Lys Leu Ile Ala Ala Gln Thr Gly Thr Arg Trp Asn
   25               30               35               40

aag atc gtt ctt aaa aag tgg tac acg att ttt aag gac cat gta tct      196
Lys Ile Val Leu Lys Lys Trp Tyr Thr Ile Phe Lys Asp His Val Ser
               45               50               55

ctg gga gat tat gaa atc cac gat ggg atg aac ctg gag ctt tat tac      244
Leu Gly Asp Tyr Glu Ile His Asp Gly Met Asn Leu Glu Leu Tyr Tyr
   60               65               70
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cag tagaggggaa ttctccacc ttgcccaacc ttgctttcct ctcccatggc 297
Gln

tcatttaaca ctgtttaga tgctcatttt taacaattca catgaataaa aactttgatg 357

ctgcaaaaaa aaa 370

<210> 2

<211> 73

<212> PRT

<213> Psammomys obesus

<400> 2

Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
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Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
20 25 30

Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
35 40 45

Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
50 55 60

Gly Met Asn Leu Glu Leu Tyr Tyr Gln
65 70

<210> 3

<211> 342

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<213> Psammomys obesus

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ccatcgtgga ttccataatc tcccagagat acatggtcct taaaaatcgt gtaccacttt 180
ttaagaacga tcttattcca acgagtgccg gtttgggccc ctatcagttt cttcaagtcc 240
ccgatggtgt catcggtgtt gcacttaacg cggactttct ttcctagacg gtcgttgcaa 300
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<210> 4

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

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aagctttttt tttttg

16

<210> 5
<211> 13
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
primer

<400> 5
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13

<210> 6
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<212> DNA
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primer

<400> 6
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primer

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<210> 8
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primer

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<210> 10

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<400> 10

tggtataaaa gctccaggtt catcccatcg

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<210> 11

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<212> DNA

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<223> Description of Artificial Sequence: Synthetic primer

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<210> 12

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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19

<210> 13

<211> 102

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (1)..(99)

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 aaa tgc aac acg gat gat acc atc ggg gac ctt aag aag ctg att gca 96
 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
 20 25 30

 gcc taa 102
 Ala

<210> 14
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 <213> Homo sapiens

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 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
 20 25 30

 Ala

<210> 15
 <211> 73
 <212> PRT
 <213> Homo sapiens

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 1 5 10 15

 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
 20 25 30

 Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
 35 40 45

 Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
 50 55 60

Gly Met Asn Leu Glu Leu Tyr Tyr Gln
65 70

<210> 16
<211> 73
<212> PRT
<213> Mus musculus

<400> 16
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1 5 10 15
Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
20 25 30
Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
35 40 45
Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
50 55 60

Gly Met Asn Leu Glu Leu Tyr Tyr Gln
65 70

<210> 17
<211> 73
<212> PRT
<213> Caenorhabditis elegans

<400> 17
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Lys Cys Asn Pro Ser Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
20 25 30
Ala Gln Thr Gly Thr Arg Trp Glu Lys Ile Val Leu Lys Lys Trp Tyr
35 40 45
Thr Ile Tyr Lys Asp His Ile Thr Leu Met Asp Tyr Glu Ile His Glu
50 55 60

Gly Phe Asn Phe Glu Leu Tyr Tyr Gln
65 70

<210> 18
<211> 66
<212> PRT
<213> Fasciola hepatica

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Val Gly Asp Leu Lys Lys Leu Ile Ala Ala Gln Thr Gly Thr Ala Pro
 20 25 30

Glu Arg Ile Val Leu Lys Lys Trp Tyr Thr Ile Tyr Lys Asp His Val
 35 40 45

Thr Leu Arg Asp Tyr Glu Ile Asn Asp Gly Met Asn Leu Glu Leu Tyr
 50 55 60

Tyr Gln
 65

<210> 19

<211> 73

<212> PRT

<213> *Oryza sativa*

<400> 19

Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
 1 5 10 15

Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
 20 25 30

Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
 35 40 45

Thr Ile Tyr Lys Asp His Ile Thr Leu Ala Asp Tyr Glu Ile His Asp
 50 55 60

Gly Met Gly Leu Glu Leu Tyr Tyr Asn
 65 70

<210> 20

<211> 73

<212> PRT

<213> *Saccharomyces cerevisiae*

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Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
 1 5 10 15

Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
 20 25 30

Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
 35 40 45

Thr Ile Leu Lys Asp His Ile Cys Leu Glu Asp Tyr Glu Val His Asp
 50 55 60

Gln Thr Asn Leu Glu Leu Tyr Tyr Leu
 65 70

<210> 21
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 <212> PRT
 <213> Homo sapiens

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 20 25 30
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 35 40 45
 Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu
 50 55 60
 Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly
 65 70 75

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 <212> PRT
 <213> Arabidopsis thaliana

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 20 25 30
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 35 40 45
 Asp Tyr Asp Ile His Lys Lys Ser Thr Leu Tyr Leu
 50 55 60